

Appl. No. 10/724,062  
Amendment dated: August 11, 2006  
Reply to OA of: May 11, 2006

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

Claims 1-9(canceled).

10(currently amended). A fluorescent display device comprising:

a vacuum envelope including:

an anode electrode formed by pasting a phosphor mixture on an anode conductor; and

an electron source, for radiating electrons, arranged in a vacuum envelope[.];

wherein the phosphor mixture ~~having:~~ has both a phosphor of a red luminous color devoid of Cd[.]; and a phosphor of a green family luminous color devoid of Cd[.];

wherein a luminous color of the phosphor mixture is one of warm colors ranging from greenish yellow, yellow, yellowish orange, orange and reddish orange and red[.]; and

wherein the phosphor of the red luminous color is  $\text{SrTiO}_3\text{:Pr}$ .

11(previously presented). The fluorescent display device of claim 10, wherein the phosphor of the red luminous color further contains Al.

12(previously presented). The fluorescent display device of claim 10, wherein the phosphor of the green family luminous color is  $\text{ZnS:Cu,Al}$  phosphor or  $\text{ZnS:Cu,Au,Al}$  phosphor, and a mixing ratio of the phosphor of the green family luminous color is about 5 to about 70wt% of the phosphor mixture.

13(previously presented). The fluorescent display device of claim 10, wherein the phosphor of the green family luminous color is  $\text{ZnS:Cu}$  phosphor or  $\text{ZnS:Cu,Au,Al}$  phosphor, and a mixing ratio of the phosphor of the green family

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luminous color is about 5 to about 50wt% of the phosphor mixture.

14(previously presented). The fluorescent display device of claim 10, wherein the phosphor of the green family luminous color is  $\text{ZnGa}_2\text{O}_4\text{:Mn}$  phosphor, and a mixing ratio of the phosphor of the green family luminous color is about 5 to about 50wt% of the phosphor mixture.

15(previously presented). A mixture phosphor for use in a fluorescent display device comprising:

a phosphor of a red luminous color devoid of Cd; and

a phosphor of a green family luminous color devoid of Cd,

wherein a luminous color of the mixture phosphor is one of warm colors ranging from greenish yellow, yellow, yellowish orange, orange and reddish orange and red,

wherein the phosphor of the green family luminous color is  $\text{ZnS:Cu,Al}$  phosphor or  $\text{ZnS:Cu,Au,Al}$  phosphor, and a mixing ratio of the phosphor of the green family luminous color is about 5 to about 70wt% of the mixture phosphor, and

wherein the mixture phosphor emits light at an anode voltage of 100V or below.

16(previously presented). A mixture phosphor for use in a fluorescent display device comprising:

a phosphor of a red luminous color devoid of Cd; and

a phosphor of a green family luminous color devoid of Cd,

wherein a luminous color of the mixture phosphor is one of warm colors ranging from greenish yellow, yellow, yellowish orange, orange and reddish orange and red,

wherein the phosphor of the green family luminous color is  $\text{ZnS:Cu,Au,Al}$  phosphor, and a mixing ratio of the phosphor of the green family luminous color is about 5 to about 50wt% of the mixture phosphor, and

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wherein the mixture phosphor emits light at an anode voltage of 100V or below.

17(currently amended). A mixture phosphor for use in a fluorescent display device comprising both a phosphor of a red luminous color devoid of Cd, and a phosphor of a green family luminous color devoid of Cd;

wherein a luminous color of the mixture phosphor is one of warm colors ranging from greenish yellow, yellow, yellowish orange, orange and reddish orange and red;

wherein the phosphor of the green family luminous color is  $\text{ZnGa}_2\text{O}_4\text{:Mn}$  phosphor, and a mixing ratio of the phosphor of the green family luminous color is about 5 to about 50wt% of the mixture phosphor; and

wherein the mixture phosphor emits light at an anode voltage of 100V or below.